

Metal fences manufacturer



The business case that we present concerns a polish company, which operates in the metalworking sector. More specifically, it produces metal fences for which it uses numerous technologies such as automatic CNC saws, high-class bending machine but most importantly welding machines that inevitably produce fumes and dust.

So, our filtering system solution was indispensable to abate welding fumes.

Problems

- Medium - large welding area
- Inability to implement localised suction for each welding spot
- Limited space available for filter units
- Need for air recirculation in the facility

Solution

Installation of four filter lines, each equipped with an eight cartridge Pulsatron Compact XL model with the supplying of a floor fan and four suction lines for air recirculation.

Technical features

- Total filter area: 1,345 m²
- Single unit air flow rate: 18.000 m³/h each
- Total air flow rate: 72.000 m³/h
- Power installed of each motor: 22kw
- Total installed power: 88kw

Benefits

- 1 Long service life of filter cartridges
- 2 Quick and easy maintenance of filter cartridges
- 3 Low maintenance costs with efficient Pulse-jet backwash cleaning system
- 4 Low pressure drop in operation with minimal compressed air and consumption of electricity